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Term:

L18 and (unagglomerat\$5 or "de-aggregated" or deaggregat\$4 or unclump)

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DATE: Sunday, November 04, 2007

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<div>Set Name</div> <div>side by side</div>	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L19	L18 and (unagglomerat\$5 or "de-aggregated" or deaggregat\$4 or unclump)	4	L19
L18	L16 and ((aliphatic near (alcohol or ethanol or methanol or propanol or isopropanol or butanol or "ethyl alcohol")) or water or ethanolic or aqueous)	132	L18
L17	L16 and (alcohol or ethanol or methanol or propanol or isopropanol or butanol or water or ethanolic or aqueous)	149	L17
L16	L14 and (rugosity or "surface smoothness")	149	L16
L15	L14 and (granulator or granuler)	0	L15
L14	L9 and @ad<20000713	149	L14
L13	L12 and @ad<20000713	0	L13
L12	L11 and (unagglomerat\$5 or "de-aggregated" or deaggregat\$4 or unclump)	5	L12
L11	L10 and (rugosity or "surface smoothness")	48	L11
L10	L7 same (granulator or granuler)	7688	L10
L9	L8 and (rugosity or "surface smoothness")	427	L9
L8	L7 same (homogenizer or homogeniser)	12739	L8
L7	(powder or grain or particle or particulate)	3012110	L7
DB=PGPB,USPT; PLUR=YES; OP=OR			
L6	L5 and @ad<20000713	4	L6

<u>L5</u>	L4 and (homogenizer or homogeniser)	4	<u>L5</u>
<u>L4</u>	L3 and (unagglomerat\$5 or "de-aggregated" or deaggregat\$4 or unclump)	20	<u>L4</u>
<u>L3</u>	L2 and (powder or grain or particle or particulate)	72	<u>L3</u>
<u>L2</u>	L1 and (rugosity or "surface smoothness")	72	<u>L2</u>
<u>L1</u>	(424/46 or 424/489 or 514/777).ccls.	6481	<u>L1</u>

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 12:25:41 ON 04 NOV 2007)

FILE 'CAPLUS, MEDLINE, USPATFULL' ENTERED AT 12:25:58 ON 04 NOV 2007

L1 2706899 S (POWDER OR GRAIN OR PARTICLE OR PARTICULATE)
L2 3970 S L1 (S) (GRANULATOR OR GRANULATOR)
L3 4 S L2 (S) (RUGOSITY OR (SURFACE(W)SMOOTHNESS))
L4 4 DUP REM L3 (0 DUPLICATES REMOVED)

L4 ANSWER 1 OF 4 USPATFULL on STN

TI Powder particles with smooth surface for use in inhalation therapy
AB Carrier particles, for use in the preparation of powdery mixtures for administration by inhalation, and having a median diameter of greater than 90 microns and a surface rugosity expressed as the fractal dimension of less than or equal to 1.1, may be prepared by subjecting particles having a median diameter of greater than 90 microns to repeated stages of wetting with a solvent and drying.

ACCESSION NUMBER: 2005:137469 USPATFULL

TITLE: Powder particles with smooth surface for use in inhalation therapy

INVENTOR(S): Caponetti, Giovanni, Parma, ITALY
Catellani, Pier Luigi, Parma, ITALY
Bettini, Ruggero, Parma, ITALY
Colombo, Paolo, Parma, ITALY
Ventura, Paolo, Parma, ITALY

PATENT ASSIGNEE(S): Chiesi Farmaceutici S.p.A., Parma, ITALY (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005118113	A1	20050602
APPLICATION INFO.:	US 2004-806240	A1	20040323 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2002-30686, filed on 16 Apr 2002, GRANTED, Pat. No. US 6780508 A 371 of International Ser. No. WO 2000-EP6690, filed on 13 Jul 2000		

	NUMBER	DATE
PRIORITY INFORMATION:	IT 1999-MI1582	19990716
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET, ALEXANDRIA, VA, 22314, US	
NUMBER OF CLAIMS:	21	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Page(s)	
LINE COUNT:	755	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 2 OF 4 USPATFULL on STN

TI Powder particles with smooth surface for use in inhalation therapy
AB Carriers for use in the preparation of mixtures for inhalation powders intended for pulmonary administration of micronized drugs by means of a dry powder inhaler and the method for their preparation are described.

ACCESSION NUMBER: 2004:211450 USPATFULL

TITLE: Powder particles with smooth surface for use in inhalation therapy

INVENTOR(S): Caponetti, Giovanni, Parma, ITALY
Catellani, Pier Luigi, Parma, ITALY
Bettini, Ruggero, Parma, ITALY
Colombo, Paolo, Parma, ITALY
Ventura, Paolo, Parma, ITALY

PATENT ASSIGNEE(S): Chiesi Farmaceutici S.p.A., Parma, ITALY (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6780508	B1	20040824
	WO 2001005429		20010125
APPLICATION INFO.:	US 2002-30686		20020416 (10)
	WO 2000-EP6690		20000713

	NUMBER	DATE
PRIORITY INFORMATION:	IT 1999-MI1582	19990716
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Kiliman, Leszek	
LEGAL REPRESENTATIVE:	Oblon, Spivak, McClelland, Maier & Neustadt, P.C.	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 6 Drawing Page(s)	
LINE COUNT:	769	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 4 USPATFULL on STN

TI Lactose spherical particles and process for their production
 AB To provide spherical particles made substantially from lactose and having high surface smoothness with low abrasiveness, and a process for their production.

A process for producing spherical particles containing at least 95 wt % lactose, characterized by comprising a step of producing lactose spherical particles by charging crystalline lactose and/or lactose granules onto a rotary disk in the treatment vessel of a centrifugal tumbling apparatus, dispersing powdered lactose to the lactose granules and/or crystalline lactose as the rotary disk is rotated while providing slit air into the vessel, while also spraying water, an aqueous lactose solution or a dilute aqueous solution of a water-soluble polymer, and a fixation treatment step of drying the obtained spherical particles in a fluidized bed apparatus while spraying an aqueous lactose solution and/or a dilute solution of a water-soluble polymer.

ACCESSION NUMBER: 1998:95284 USPATFULL
 TITLE: Lactose spherical particles and process for their production
 INVENTOR(S): Kato, Hisayoshi, Tokyo, Japan
 Myo, Nagayoshi, Tokyo, Japan
 PATENT ASSIGNEE(S): Freund Industrial Co., Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5792507		19980811
APPLICATION INFO.:	US 1997-788588		19970124 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1996-28697	19960124
	JP 1997-11910	19970107
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Dudash, Diana	
LEGAL REPRESENTATIVE:	Abelman, Frayne & Schwab	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 4 Drawing Page(s)	
LINE COUNT:	569	

L4 ANSWER 4 OF 4 USPATFULL on STN

TI Jet layer granulator
 AB In a granulator of the jet layer type, all the liquid jetting openings are located in a passage for a gas jetted from the gas jetting opening and each liquid jetting opening is located at a position higher than the gas jetting opening by a vertical distance smaller than the inner diameter of the gas jetting opening. The granulator may have an

additional device such as an excess size-having particle-collecting means, a five particle treating means, a rectifying pipe member, a fuffer member and a hindrance and breakage member.

ACCESSION NUMBER: 82:50241 USPATFULL
TITLE: Jet layer granulator
INVENTOR(S): Nagahama, Takashi, Mobara, Japan
Matsumoto, Nobuyuki, Mobara, Japan
Naruo, Masaki, Mobara, Japan
Nioh, Susumu, Tokyo, Japan
Hirayama, Hiroshi, Funabashi, Japan
Honda, Tetsuzo, Funabashi, Japan
Sato, Yoshinori, Funabashi, Japan
Toyama, Kenji, Chiba, Japan
Shiotu, Gisaburo, Kawasaki, Japan
PATENT ASSIGNEE(S): Toyo Engineering Corporation, Tokyo, Japan (non-U.S. corporation)
Mitsui Toatsu Chemicals, Inc., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4354450		19821019
APPLICATION INFO.:	US 1981-258846		19810429 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1980-60369	19800507
	JP 1980-60370	19800507
	JP 1980-82000	19800617
	JP 1980-82001	19800617
	JP 1980-106304	19800801
	JP 1980-106305	19800801

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Lusignan, Michael R.
LEGAL REPRESENTATIVE: Blanchard, Flynn, Thiel, Boutell & Tanis
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 23 Drawing Figure(s); 15 Drawing Page(s)
LINE COUNT: 1495
CAS INDEXING IS AVAILABLE FOR THIS PATENT.